Rotary brush device and vacuum cleaner using the same

Patent number: EP0947155

Publication date: 1999-10-06

Inventor: NISHIMURA HIROSHI (JP); HAYASHI SEIZO (JP)

Applicant: MATSUSHITA ELECTRIC IND CO LTD (JP)

Classification:

- international: A47L9/04; A47L5/30; A47L9/28

- european: A47L9/28B2, A47L9/28B4, A47L9/04, A47L5/28, A47L5/30, A47L9/02, A47L9/28, A47L9/28B

Application number: EP19990106662 19990401

Priority number(s): US19980055020 19980403

Also published as:

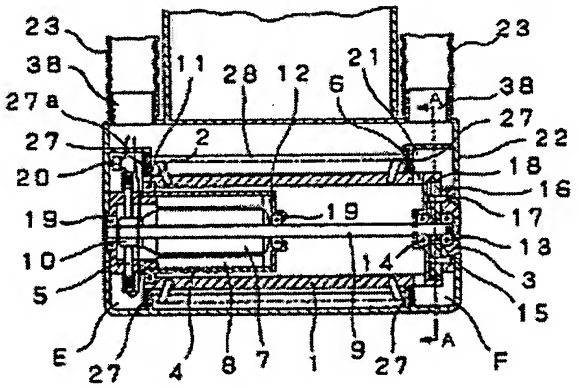
EP0947155 (A3)

Cited documents:

GB370645
GB293319
GB668631
US3172138
US4384386
more >>

Abstract of **EP0947155**

A motor is incorporated in a cylindrical body which is a rotary brush. Rotation of a rotor of the motor, directly or via a speed reduction mechanism, drives the rotary brush. Cooling air runs through the cylindrical body so that the motor is cooled and protected. The rotary brush and an electric apparatus using the rotary brush can be downsized and easily.



Data supplied from the ***esp@cenet*** database - Worldwide

(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 0 947 155 A3

(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
20.02.2002 Bulletin 2002/08

(43) Date of publication A2:
06.10.1999 Bulletin 1999/40

(21) Application number: **99106662.2**

(22) Date of filing: **01.04.1999**

(51) Int Cl.[7]: **A47L 9/04**, A47L 5/30, A47L 9/28

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **03.04.1998 US 55020**

(71) Applicant: **Matsushita Electric Industrial Co., Ltd.**
Kadoma-shi, Osaka 571-8501 (JP)

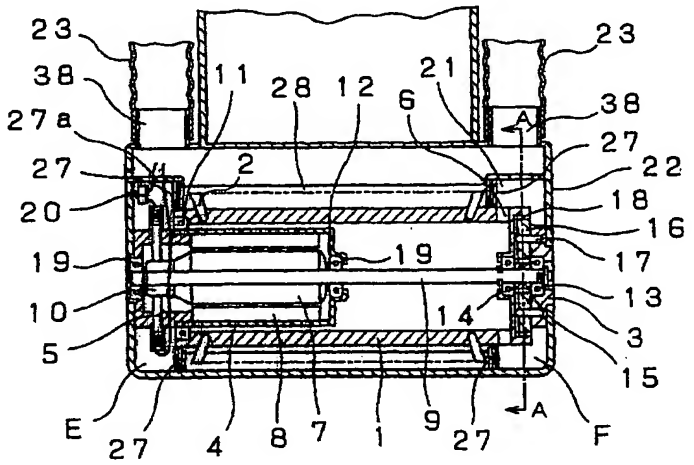
(72) Inventors:
- **Nishimura, Hiroshi**
  Gamo-gun, Shiga 529-1535 (JP)
- **Hayashi, Seizo**
  Omihachiman-shi, Shiga 523-0892 (JP)

(74) Representative: **Kügele, Bernhard et al**
NOVAPAT INTERNATIONAL SA, 9, Rue du Valais
1202 Genève (CH)

(54) Rotary brush device and vacuum cleaner using the same

(57) A motor is incorporated in a cylindrical body which is a rotary brush. Rotation of a rotor of the motor, directly or via a speed reduction mechanism, drives the rotary brush. Cooling air runs through the cylindrical body so that the motor is cooled and protected. The rotary brush and an electric apparatus using the rotary brush can be downsized and easily.

Fig. 2



EP 0 947 155 A3